

ABSTRACT OF THE DISCLOSURE

Methods are described for analyzing access list subsumption in routing devices of a computer network and for identifying computer network integrity violations, by producing structured data that includes stored router names and access lists that include elements with address/mask pairs, or patterns used to filter data into and out of a routing device, respectively; determining whether access lists in the structured data include elements in which a first element in the access list has a more general or equal address/mask pair, or pattern, respectively, than a second or subsequent element, or pattern; and storing in electronic memory a report of elements or a list of patterns, respectively, in which a first element or pattern is more general than or equal to a second or subsequent element or pattern.

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